



**State Level Environment Impact Assessment Authority, Jharkhand**

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi, Jharkhand-834004

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Letter No.- EC/SEIAA/2021-22/2563/2021/

Ranchi, Date:

To: **M/s Prakriti Waste Management,  
Sri Abhishek Prabhat S/O Sri Bijay Kumar,  
Near Hanuman Path, Tilakmanjhi, Jagdishpur,  
P.O.&P.S. – Tilakmanjhi, Distt. – Bhagalpur,  
Bihar – 812001.**

Sub: Prescribing of ToR to “Proposed Common Bio-Medical Waste Treatment and Disposal Facility of M/s Prakriti Waste Management, Village : Ambatari, Thana : Rikhiya, Tehsil : Mohanpur, Dist. : Deoghar, Jharkhand” (Proposal No : SIA/JH/MIS/73348/2022) - regarding.

Ref: Your application no.: Nil, Dated : 24.03.2022.

Sir,

The proposal was considered by the committee to determine the “Terms of Reference (TOR)” for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 7 (d) (a) (Bio-Medical Waste Treatment Facilities) of the Schedule-Gazette Notification dated 17th April 2015 of MoEF&CC, Govt. of India.

This is a new project which has been taken for appraisal on 12.05.2022 and PA's has presented the project before the Committee.

The total plot area of the unit is 4087.74 sq.m. The land for the proposed project is taken on lease in name of M/s Prakriti for the purpose of establishment of a Common Biomedical Waste Treatment Facility only. The total project cost for the proposed project will be Rs. 98 lacs.

**Salient Features of The Project:**

S. No.	Items	Details
1.	Project name	Proposed Common Bio-Medical Waste Treatment Facility at Deoghar.

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2.	Project Proponent	M/s Prakriti Waste Management				
3.	Category	B				
4.	Project address					
	<b>Khata no. &amp; Plot no.</b>	Khata no. 03, Plot no. 65 (P).				
	Village	Ambatari				
	Tehsil	Mohanpur				
	District	Deoghar				
	State	Jharkhand				
	Coordinates	Pt. 1	Latitude: 24°35'46.02"N	Pt. 2	Latitude: 24°35'43.31"N	
			Longitude: 86°45'25.34"E		Longitude: 86°45'24.91"E	
		Pt. 3	Latitude: 24°35'42.80"N	Pt. 4	Latitude: 24°35'45.70"N	
			Longitude: 86°45'25.99"E		Longitude: 86°45'27.28"E	
	Pt.5	Latitude: 24°35'45.79"N				
		Longitude: 86°45'25.75"E				
5.	Nearest CBWTF	At Dhanbad ~94.53 km from the proposed site				
6.	Total Plot area	4087.74 sq.m. (1.01 acre)				
7.	Waste to be handled	7500 kg/day				
8.	No. of shifts	3				
9.	No. and types of vehicles for transportation/ collection of waste	10 nos. Diesel vehicles				
10.	Trips to be made per day	10 trips/day				
	<b>Environmental sensitivity</b>					
11.	Nearest Town/City	Deoghar	10.57 km	S		
12.	Nearest railway station	Deoghar Junction	9.89 km	SW		
13.	Nearest highway	NH 133	10.67 km	S		
		SH 22	8.84 km	W		
14.	Nearest airport	Sidho Kanhu airport	45.46 km	SW		

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15.	Nearest river/ water body	Seasonal River	0.36 km	S
		Mayurakashi River	11.59 km	SW
		Nala		
		canal		
		Densely mixed Forest	4.0 km	NE
		Fairly mixed Forest	4.13	NW

#### Treatment capacity of the proposed CBWTF

S. No.	Particular	No.	Capacity
1	Incinerator	1	300 kg/hr
2	Autoclave	1	100 lt/batch Batch (60 min) i.e 100 kg/hr
3	Shredder	1	50 kg/hr
4	ETP	1	5 KLD
5	Sharp pit	1	-
6	Ash pit	1	-

#### Raw Material

The project involves treatment of bio medical waste and the raw material for the process is collected from various health care establishments as defined and specified under Bio Medical Waste Management Rules, 2016. Details and the quantity of raw material are provided below in table below:

#### Raw material requirement

S. No.	Particular
1	Biomedical waste
2	Colour coded Trollies
3	Non Chlorinated Colour coded bags
4	Diesel
5	Spares

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6	<b>Chemicals:</b> <ul style="list-style-type: none"> <li>• Sodium Hypochlorite</li> <li>• Caustic soda</li> <li>• Lime</li> <li>• Alum</li> <li>• Disinfectant</li> </ul>
7	Personal Protection Equipment (PPE)

#### Water Requirement and Source:

The one time water demand for the proposed CBWTF will be 10.1 KLD, wherein the daily fresh water requirement will be 6.5 KLD and the recycled water demand will be 3.6 KLD. Water will be required for industrial purpose i.e. for venturi scrubber and autoclave, domestic usage, floor and vehicle washing, and green belt.

The detailed water demand calculation and break up is elaborated under:

#### Water demand calculation :

S. No.	Particulars	Details	Basis	Water demand (KLD)	Waste Water Generation (KLD)	Management
1	Domestic	32 persons	@ 45 lpcd	1.5	1.35	Septic tank followed by Soak Pit
2	Industrial	Venturi scrubber & autoclave effluent		6	3	ETP
3	Others	Floor & vehicle washing		1.2	1	
4	Green Belt	1340.06 Sq.m	@ 1 lt/sq.m	1.34	Nil	Nil
				<b>10.1</b>	<b>5.35</b>	

#### Power Requirement and Source :

The power demand for the proposed CBWTF will be 65 kVA that will be sourced through DGset.

#### Solid Waste Management

The wastes will be generated from the CBWTF including hazardous waste during operation phase & their treatment/disposal methods are given below:

**Waste generation & disposal :**

S. No	Treated Waste Category	Treatment and disposal options
1	Plastic waste after disinfection and shredding	Plastic waste will not be sent to land fill sites. Treated plastic waste is sent to registered or authorized recyclers.
2	Disinfected sharps (including needles and syringes)	Autoclaving followed by shredding & encapsulation in metal container or cement concrete and sent for final disposal to
		designated concrete waste sharp pit.
3	Incineration ash	Incineration ash (200 Kgs per day) will be temporarily stored in ash pit at site & then final disposal through authorized treatment, storage and disposal facility (TSDF).
4	Other treated solid wastes like glass waste	Autoclaving and then sent for recycling
5	Oil and Grease	Incineration
6	ETP Sludge	Incineration after drying in sludge drying beds or removal of moisture content using filter press.
7	Hazardous waste	Disposal through TSDF located nearby following the manifest as per hazardous and other waste (Management and Transboundary Movement) Rules.

**STATUTORY CLEARANCE**

1	DFO Wildlife	:	The DFO, Wildlife Hazaribagh Vide Letter No. 1509, Dated 09/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
2	CO certificate	:	The CO, Mohanpur vide Letter No. 489, Dated 28/05/2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani.





3	DFO Territorial	:	The DFO, Deoghar Forest Division vide Letter No. 145, Dated 01/02/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
4	Civil Surgeon certificate	:	The Civil Surgeon, Deoghar vide letter no. 2024, dated 24.12.2021 has certified that there is no CBWTF plant exist within 75 km.

**During the presentation the following documents were sought:**

- Drainage map showing contour level to be provided.
- Details of power requirement to be provided.
- Undertaking regarding ground water usage from competent authority to be provided.
- Revise layout plan showing locations of DG set, green area, vehicle entry point and RWI pit to be provided.
- Treatment capacity of CBWTF to be provided.
- Revise project layout diagram to be provided.

**The PAs have submitted the above required documents.**

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meeting held during 10<sup>th</sup> – 14<sup>th</sup> May, 2022 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study and alongwith following specific condition as recommended by SEAC :

SEAC, Jharkhand has suggested the ToRs in its 94<sup>th</sup> meeting dated 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup> and 14<sup>th</sup> May, 2022 and SEIAA, Jharkhand has approved the ToRs in its 95<sup>th</sup> meeting held on 14<sup>th</sup>, 15<sup>th</sup> & 16<sup>th</sup> June, 2022.

**The TORs prescribed for undertaking detailed EIA study are as follows:**

**A. Standard Terms of Reference :**

- Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damages, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site..
- Submit the details of the road/rail connectivity along with the likely impacts and mitigative measures
- Submit the present land use and permission required for any conversion such as forest, agriculture etc
- Examine the details of transportation of Hazardous wastes, and its safety in handling.

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5. Examine and submit the details of on line pollutant monitoring.
6. Examine the details of monitoring of Dioxin and Furon.
7. MoU for disposal of ash through the TSDF.
8. MoU for disposal of scrubbing waste water through CETP.
9. Examine and submit details of monitoring of water quality around the landfill site.
10. Examine and submit details of the odour control measures.
11. Examine and submit details of impact on water body and mitigative measures during rainy season.
12. Environmental Management Plan should be accompanied with Environmental Monitoring Plan and environmental cost and benefit assessment. Regular monitoring shall be carried out for odour control.
13. Water quality around the landfill site shall be monitored regularly to examine the impact on the ground water.
14. The storage and handling of hazardous wastes shall be as per the Hazardous Waste Management Rules.
15. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
16. Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.
17. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
18. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
19. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
20. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website <http://moef.nic.in/Manual/Incinerator>.

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**B. Other :**

1. Examine base line environmental quality along with projected incremental load due to the project.
2. Environmental data to be considered in relation to the project development would be (a) land, (b) ground water,(c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations,(g) socio economic and health.
3. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding areas. Any obstruction of the same by the project.
4. Submit the details of the tree felling for the project.
5. Submit the present land use and permission required / obtained for any conversion such as forest, agriculture land etc.
6. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of E (P) Act.
7. Ground water classification as per the Central Ground Water Authority.
8. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
9. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.
10. Examine details of solid waste generation, treatment and disposal.
11. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption and energy efficiency.
12. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
13. Examine road / rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
14. Examine the details of transport of materials for construction which should include source and availability.
15. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
16. Submit details of a comprehensive Disaster Management Plan including emergency evacuation and fire during natural and man-made disaster.

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17. Details of litigation pending or any notice received against the project, if any, with direction / order passed by any Court of Law against the Project should be given.
18. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
19. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
20. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
21. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
22. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".
23. Management of solid waste and the Construction & Demolition waste for the project vis-a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
24. Details of all construction input should be furnished for assessment of Ecological damage/ Environmental damage.
25. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
26. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
27. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA.







Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

28. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015 / 109 / 2013 – IA.II (M), dated 12.01.2017.

Sd/-  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

Memo No.-EC/SEIAA/2021-22/2563/2021/ 129

Dated: 18/06/2022

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand for information and necessary action.
2. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
3. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand

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